

## ABSTRACT

A method for regulating the operating frequency of a closed loop fiber optic gyroscope. The demodulated output signal of a detector, as actual signal, is applied to the input of a main controller and, via a gating filter, to a VCO that determines the system clock of the FOG. An additional modulation signal, as analog signal is fed to separate phase correction electrodes that are formed together with the electrodes of a digital phase modulator in an integrated optical chip.